

## **8.0 MITIGATION MONITORING PROGRAM**

Table 8-1, beginning on the next page, presents the Mitigation Monitoring Program.

**Table 8-1. Mitigation Monitoring Program**

Notes:

1. Resource areas with no significant impacts do not appear in this table (i.e., resource areas that have either no impacts or adverse but not significant impacts do not appear in this table).
2. A summary of the impact and mitigation measure is provided the first time the impact or mitigation measure is introduced in this table; subsequent references to a previously introduced impact or mitigation measure include only the *abbreviation* of the impact (e.g., MB-4) or mitigation measure (e.g., MM MB-4a).

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
<b>Program Alternative 1: Shell Mounds and Caissons Removal and Disposal</b>						
SECTION 3.1 AIR QUALITY						
AQ-1	II	Emissions from shell mound and caisson removal and transport activities would exceed the SBCAPCD daily NOx threshold of 240 pounds.	<i>MM AQ-1a. The Applicant shall require all project contractors to use reformulated (emulsified) diesel fuel in project equipment. Chevron shall submit to the CSLC initial purchase orders showing purchase of reformulated diesel fuel prior to construction and a complete set of purchase orders within 30 days following project completion.</i>	Review of Chevron's initial and final, complete set of purchase orders for reformulated diesel fuel oil for project equipment	CSLC (in consultation with SBCAPCD)	Prior to dredging  Post-dredging (within 30 days following completion)
			<i>MM AQ-1b. The Applicant shall require all project contractors to implement 2 to 4 degree injection timing retard (ITR) on all diesel-powered project equipment, where feasible.</i>	Periodic dredge site visits to confirm presence of ITR on diesel-powered equipment		During dredging operations
			<i>MM AQ-1c. The Applicant shall acquire emission reductions through the SBCAPCD Offsite Mitigation Program to offset project daily NOx emissions to less than the SBCAPCD daily threshold of 240 pounds.</i>	Following Chevron submittal of equipment specifications to SBCAPCD, CSLC to consult with SBCAPCD to confirm that emissions have been reduced below threshold		Prior to dredging

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
AQ-1 (cont.)	II	Emissions from transport and disposal activities for each Program Alternative option would exceed the SCAQMD daily and calendar quarter NOx threshold. Also, emissions from transport and disposal activities for the Kern County and SCAB disposal options would exceed the SCAQMD daily ROC and CO thresholds.	See MM AQ-1a and -1b <i>MM AQ-1d. The Applicant shall acquire emission reductions through the SCAQMD Offsite Mitigation Program to offset project ROC, CO, and NOx emissions to less than the SCAQMD thresholds.</i>	See MMs AQ-1a, -1b, and -1d	See MMs AQ-1a, -1b, and -1d	See MMs AQ-1a, -1b, and -1d
<b>SECTION 3.2 MARINE WATER QUALITY AND SEDIMENT QUALITY</b>						
WQ-1	IV	Permanent removal of contaminated sediments.	<i>None proposed.</i>	N/A	N/A	N/A
WQ-2	II or III	Disturbance and resuspension of shell mound materials from dredging-related operations.	<i>MM WQ-2a. Use of enclosed (environmental) bucket dredge and approved dredging practices, including conducting operations during favorable wind and sea conditions.</i>	Periodic inspection of dredge sites to verify compliance with measure	CSLC	During dredging operations
			<i>MM WQ-2b. Submittal of design and operating procedures for a filtration system for dewatering barge, and subsequent installation on dewatering barge.</i>	Approval of filtration system plan  Periodic inspections of dredge sites to verify compliance with plan.	CSLC CCC Central Coast RWQCB	Prior to dredging (60 days prior to commencement)  During dredging

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
WQ-2 (cont.)			<i>MM WQ-2c. Plan for implementing additional Best Management Practices (BMPs) to reduce suspended sediment levels</i>	Approval of BMP plan	CSLC CCC Central Coast RWQCB	Prior to dredging (60 days prior to commencement)
			<i>MM WQ-2d. If the Waste Discharge Requirement (WDR) for the decant water discharge specifies the spatial limit of the initial mixing zone, the Applicant shall document that the quality of the discharge meets specific limits for water quality parameters at the boundary of or beyond the mixing zone.</i>	Verification of discharge within required limits	RWQCB	During dredging
			<i>MM WQ-2e. Provision of on-site response team with equipment.</i>	Verification that team and equipment are in place	CSLC	Prior to and during dredging operations
WQ-3	II or III	Residual contamination associated with mound materials that are not removed by dredging and smoothing	<i>MM WQ-3a. Conduct post-clearance surveys to verify that background contamination concentrations are achieved.</i>	Verify results of trawl test following site smoothing	CSLC	Post dredging operations (within 45 days of smoothing completion)
WQ-4	I	Toxicity/ bioaccumulation resulting from disposal of dredged materials offshore.	<i>None proposed.</i>	N/A	N/A	N/A

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
WQ-4 (cont.)	II	Toxicity/ bioaccumulation resulting from spills of dredged materials during transport to/unloading at onshore transfer point.	The following mitigation measures would apply: <i>MM WQ-2a (approved practices including limits on loading barges)</i> <i>MM MB-4a</i> <i>MM MB-4b</i>	See MMs WQ-2a and MB-4ab	See MMs WQ-2a and MB-4ab	See MMs WQ-2a and MB-4ab
SECTION 3.3 MARINE BENTHIC HABITATS, INVERTEBRATES, AND FISHES						
MB-1	IV	Removal of the 4H Shell Mounds would permanently remove contaminated sediments associated with the shell mounds from the marine environment.	<i>None proposed.</i>	N/A	N/A	N/A
MB-2	III	Physical disturbance of benthic organisms and their habitats during shell mound removal or modification operations.	<i>MM MB-2a. Submittal to the California State Lands Commission for approval, implementation of anchoring/mooring plan to minimize disturbance of the seafloor and avoidance of sensitive features.</i>	Approval of anchoring/ mooring plan	CSLC	Prior to dredging operations (30 days prior)
			<i>See MMs WQ-2a and WQ-2d</i>	See MMs WQ-2a and WQ-2d	See MMs WQ-2a and WQ-2d	See MMs WQ-2a and WQ-2d

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
MB-3	II	Contaminants, including oil, released during project operations will disperse into the water column and onto the seafloor, resulting in toxicity and bioaccumulation during and for hours (water quality effects) to months (sediment effects) after the operations.	The following mitigation measures would apply: <i>MMs WQ-2a through -2e</i> <i>MM WQ-3a</i>	See MMs WQ-2a through -2e, and WQ-3a	See MMs WQ-2a through -2e, and WQ-3a	See MMs WQ-2a through -2e, and WQ-3a
MB-4	I or II	Transport of materials may result in accidental spillage, or pose collision risks with other vessels that would cause spillage, thus adversely affect marine benthic habitats and biota. [Applies to transport of shell mounds materials and caissons' components.]	<i>MM MB-4a. Large vessels/barges engaged in transport or disposal shall remain within established vessel traffic lanes while in transit.</i>	Verify compliance	U.S. Coast Guard	During dredging

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
MB-4 (cont.)			<i>MM MB-4b. Vessels, bins, and other equipment used for transport to be adequately equipped to contain materials and avoid unauthorized discharges. Applicant to record materials transported, report losses to the California State Lands Commission. Applicant responsible for unauthorized discharges.</i>	Require monitoring systems installed on transport vessels to document losses of material	USEPA USACE U.S. Coast Guard CSLC Central Coast RWQCB	During dredging, dredge material transport, and dredge material offloading  Losses to be reported within 24 hours of such loss
MB-5	I	Ocean disposal of shell mounds sediments, if approved, would have potentially toxic effects on marine biota.	<i>None proposed.</i>	N/A	N/A	N/A
MB-6	II	Explosive demolition of the caissons at the Hazel site will result in the mortality of fishes and invertebrates in the immediate vicinity.	<i>MM MB-6a. The Applicant shall submit to the California State Lands Commission for approval, in consultation the California Coastal Commission and Department of Fish and Game, and shall subsequently implement, an Explosives Use Plan.</i>	Approval of Explosives Use Plan	CSLC CCC CDFG	Prior to demolition work (30 days prior)
SECTION 3.4 MARINE WILDLIFE (MARINE MAMMALS, SEA TURTLES, SEABIRDS)						
MW-1	IV	Permanent removal of contaminated sediments.	<i>None proposed.</i>	N/A	N/A	N/A

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
MW-2	II	Mortality, injury, permanent (hearing) threshold shift, temporary threshold shift, and/or harassment from explosives.	<i>MM MW-2a. Preparation of Marine Wildlife Protection Plan, including key contacts, vessels and equipment, contractors, schedules, procedures and acoustic deterrence options.</i>	Approval of the Marine Wildlife Protection Plan	CSLC CDFG CCC NOAA Fisheries	To be prepared in the event that explosives are used to demolish the Hazel caissons
			<i>MM MW-2a1. Independent, third party monitors approved by NOAA Fisheries and CDFG.</i>	Approval of third party monitors	See MM MW-2a1	See MM MW-1
			<i>MM MW-2a2. Notice to agencies and wildlife rescue organizations: briefing of key personnel.</i>	Verification of notice, briefing	See MM MW-2a2	Prior to demolition
			<i>MM MW-2a3. Multiple, reliable communications.</i>	Verification of lines, means of communication	See MM MW-2a3	Prior to demolition
			<i>MM MW-2a4. Aerial and vessel line transect surveys. Tagging of dead floating wildlife; determination of cause if possible. Moving animals from hazard zone if authorized.</i>	Daily reports from on-site monitor	See MM MW-2a4	During demolition activities
			<i>MM MW-2a5. Harassment authorization to coax animals out of hazard zone.</i>	Daily reports from on-site monitor	See MM MW-2a5	During demolition activities
			<i>MM MW-2a6. Establishing and maintaining 1000-meter hazard zone; adjusted if warranted.</i>	Daily reports from on-site monitor	See MM MW-2a6	During demolition activities



**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
MW-2 (cont.)			<i>MM MW-2a7. Use of visual signals if radio silence imposed. Detonation of as many charges as possible in staggered sequence no later than one hour before sunset.</i>	Daily reports from on-site monitor	See MM MW-2a7	During demolition activities
			<i>MM MW-2a8. Use of minimal amount of explosives. Stemming of charges. Use of berm around detonation sites.</i>	Daily reports from on-site monitor	See MM MW-2a8	During demolition activities
			<i>MM MW-2a9. Measurement of sound pressure levels and adjustment of hazard zone if indicated.</i>	Daily reports from on-site monitor	See MM MW-2a9	During demolition activities
			<i>MM MW-2a10. Recording data to assess effectiveness of mitigation.</i>	Daily reports from on-site monitor	See MM MW-2a10	During demolition activities
			<i>MM MW-2a11. Surveying after detonation.</i>	Daily reports from on-site monitor	See MM MW-2a11	During demolition activities
			<i>MM MW-2a12. Notification of rescue centers if any wildlife injured. Report submitted within 24 hours.</i>	Daily reports from on-site monitor	See MM MW-2a12	During demolition activities
			<i>MM MW-2a13. Final mitigation monitoring report.</i>	Approve final report	See MM MW-2a13	30 days following completion of all demolition
			<i>MM MB-6a would also apply.</i>	See MM MB-6a	See MM MB-6a	See MM MB-6a
MW-3	II	Use of mechanical cutting would result in the prolonged presence of equipment and attendant risks.	The following mitigation measures would apply: <i>MM MW-2a1 through -2a13</i> <i>MM MW-4a1 through -4a3</i> <i>MM MW-6a</i>	See MMs MW-2a1 through -2a13, MW-4a1 through -4a3, and MW-6a	See MMs MW-2a1 through -2a13, MW-4a1 through -4a3, and MW-6a	See MMs MW-2a1 through -2a13, MW-4a1 through -4a3, and MW-6a

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
MW-4	II	Increased vessel traffic, mooring buoys, waste discharge, unauthorized fishing, and anchoring can result in mortality, injury or harassment.	<i>MM MW-4a1. Guidelines for vessel maneuvering when marine mammals are present.</i> <i>MM MW-4a2. Use of small spherical mooring buoys to preclude sea lions hauling out in hazard zone.</i> <i>MM MW-4a3. No discharge of food wastes or fishing activities.</i> <i>MB-2a would also apply.</i>	Daily monitoring reports	See MMs MW-4a1 through -4a3, and MB-2a	Prior to and during removal or modification of shell mounds
MW-5	II	Dredging activities resulting in release of bioaccumulative or toxic substances.	The following mitigation measures would apply: <i>MM WQ-2a through -2e</i> <i>MM WQ-3a</i> <i>MM MB-2a</i>	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a
MW-6	II	Dredging sounds causing Level B harassment of marine mammals.	The following mitigation measures would apply: <i>MM MW-6a. Use of well-maintained and lubricated clamshell bucket.</i> <i>MM WQ-2a</i>	Verify contractor's use of proper equipment	CSLC	Prior to and during dredging
MW-7	II (I for ocean disposal)	Transport, ocean disposal, smoothing of shell mounds, and testing resulting in release of bioaccumulative or toxic substances.	The following mitigation measures would apply: <i>MM WQ-2a through -2d</i> <i>MM WQ-3a</i> <i>MM MB-2a</i> <i>MM MB-4a and -4b</i> <i>MM MW-2a2</i> <i>MM MW-2a12 and -2a13</i> <i>MM MW-4a1 through -4a3</i>	See MMs WQ-2a through -2d, WQ-3a, MB-2a, MB-4a and -4b, MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3	See MMs WQ-2a through -2d, WQ-3a, MB-2a, MB-4a and -4b, MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3	See MMs WQ-2a through -2d, WQ-3a, MB-2a, MB-4a and -4b, MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
<b>SECTION 3.5 COMMERCIAL AND RECREATIONAL FISHING</b>						
CRF-1	IV	Permanent removal of contaminated sediments.	<i>None proposed.</i>	N/A	N/A	N/A
CRF-2	II	Commercial and recreational fishing would be precluded in the project vicinity during project activities.	<i>MM CRF-2a. The Applicant shall provide 30-day advance notice of pending activities at the shell mounds sites to enable fishers to avoid the affected area. Specifically, the Applicant shall ensure that: (1) notification is received by the Joint Oil/Fisheries Liaison Office and posted at the Harbor Masters offices in Morro Bay, Avila, Santa Barbara, Ventura, Channel Islands, and Hueneme; and (2) project information is provided in the Local Notice to Mariners issued by the Eleventh Coast Guard District. Information provided shall include, at a minimum, a description of the proposed action, a map of the project site(s), and an estimate of the expected duration of project activities.</i>	Applicant to provide copy of notice for verification	CSLC U.S. Coast Guard	Prior to dredging (30 day advance notice)
			<i>MM CRF-2b. The Applicant shall compensate fishers who are able to demonstrate a loss of catch. Compensation shall be based on the average of the previous five years catch during the season and area of activity.</i>	Verify loss of catch, payment of compensation	CDFG	During and up to 90 days following in-water activities

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
CRF-3	II	Contaminants, including oil, released during project operations will disperse into the water column and onto the seafloor, resulting in the exposure of commercially and recreationally fished species to contaminants, with potential toxic or bioaccumulation effects (see WQ-2, WQ-3, and MB-2).	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a
CRF-4	II	Explosive demolition of the caissons at the Hazel site will result in the mortality of fishes that are commercially or recreationally harvested in the immediate vicinity.	See MM MB-6a	See MM MB-6a	See MM MB-6a	See MM MB-6a
CRF-5	II	The transport of materials may interfere with fishing boats, result in accidental spillage that could expose fishery resources to contaminants, or otherwise conflict with fishing activities.	See MM MB-4a and -4b	See MM MB-4a and -4b	See MM MB-4a and -4b	See MM MB-4a and -4b

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
CRF-6	I	Ocean disposal of shell mounds sediments at LA-2, if approved, would have potentially toxic effects on marine biota.	<i>None proposed.</i>	N/A	N/A	N/A
CRF-7	IV	Removal of the 4H shell mounds and caissons would restore trawling and other types of fishing to the areas occupied by and adjacent to the mounds where such fishing activities have been prevented.	<i>None proposed.</i>	N/A	N/A	N/A
<b>SECTION 3.9 SAFETY/HAZARDS/RISK OF UPSET</b>						
HAZ-1	II	Vessels and equipment could cause release of hazardous substances, including diesel fuel, oil, or lubricant leaks or spills.	<i>MM HAZ-1a. Oil spill contingency plan approved by CSLC. To address spill prevention, spill response measures for accidental hydrocarbon release. Will identify key points of contact, vessels and equipment, contractors, schedules, and procedures.</i>	Approval of contingency plan	CSLC	Prior to dredging operations
HAZ-2	II	Release of diesel fuel, oil, or lubricant leaks or spills could create potential health hazard, affect public health and safety.	<i>MM HAZ-2a. Vessel emergency response plans approved by CSLC, identifying equipment, and supplies for use in the event of a spill. Plans to identify key points of contact, vessels and equipment, contractors, schedules, and procedures.</i>	Approval of emergency response plans	CSLC	During dredging operations

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
HAZ-3	II	Use of explosives to demolish Platform Hazel caissons could create a potential safety hazard.	<p><i>MM HAZ-3a. Human Health and Safety Plan, approved by CSLC, to incorporate relevant permit conditions, all of the elements discussed in this section. Plan to identify key points of contact, vessels and equipment, contractors, schedules, and procedures. To incorporate the following:</i></p> <p><i>MM HAZ-3a1. Demolition contractor to have approved explosive transportation and operations identifying safe practices, warnings, and procedures.</i></p> <p><i>MM HAZ-3a2. All personnel to be briefed on procedures and requirements in explosives transportation and operation plan.</i></p>	Approval of Human Health and Safety Plan.	CSLC	Prior to demolition operations
			<p><i>MM HAZ-3a3. Explosive devices to be properly packaged for shipment, staged in approved offshore magazine until demolition, loaded and secured on a DOT-approved truck for transport to loading dock.</i></p>			
HAZ-4	II	Underwater tasks necessary for removal of Hazel caissons could expose divers to safety hazards.	<p><i>MM HAZ-4a. Ocean conditions to be taken into consideration during both diving, marine vessel operations. Dive supervisor, dive vessel barge master responsible for determining safe weather-related diving conditions.</i></p>	Daily monitoring reports	CSLC	During dredging operations
HAZ-5	III	Post-detonation fumes associated with underwater explosions could cause health risk for workers in nearby vessels.	<p><i>MM HAZ-5a. Post-detonation fumes shall be allowed to clear before vessels are allowed to re-enter the former Platform Hazel area.</i></p>	Daily monitoring reports	CSLC	During dredging operations

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
<b>Program Alternative 2: Leveling and Spreading of Shell Mounds with Caissons Removal and Disposal</b>						
SECTION 3.1 AIR QUALITY						
AQ-2	II	Emissions from shell mound spreading and caisson removal and transport activities would exceed the SBCAPCD daily NOx threshold of 240 pounds.	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c
	II	Emissions from caisson material transport and disposal activities would exceed the SCAQMD daily NOx threshold of 100 pounds.	The following mitigation measures would apply: <i>MM AQ-1a</i> <i>MM AQ-1b</i> <i>MM AQ-1d</i>	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d
SECTION 3.2 MARINE WATER QUALITY AND SEDIMENT QUALITY						
WQ-5	II or III	Disturbance and resuspension of shell mound materials from leveling/spreading-related operations	<i>MM WQ-5a. Provision of on-site response team with equipment.</i>	Verify team and equipment are on site	CSLC U.S. Coast Guard	During dredging operations
WQ-6	I	Chronic toxicity and contaminant bioaccumulation in areas where spreading and mixing with native sediments are inadequate to reduce contaminant concentrations to the extent they are no	<i>None proposed.</i>	N/A	N/A	N/A

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(continued)

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		longer deleterious.				
SECTION 3.3 MARINE BENTHIC HABITATS, INVERTEBRATES, AND FISHES						
MB-2	I	See MB-2	<i>None proposed.</i>	N/A	N/A	N/A
MB-3	I	See MB-3	<i>None proposed.</i>	N/A	N/A	N/A
MB-4	II	See MB-4	<i>See MMs MB-4a and MB-6a</i>	See MMs MB-4a and MB-6a	See MMs MB-4a and MB-6a	See MMs MB-4a and MB-6a
MB-6	II	See MB-6	<i>See MMs MB-4a and MB-6a</i>	See MMs MB-4a and MB-6a	See MMs MB-4a and MB-6a	See MMs MB-4a and MB-6a
SECTION 3.4 MARINE WILDLIFE (MARINE MAMMALS, SEA TURTLES, SEABIRDS)						
MW-8	I	Leveling, spreading and leaving materials in place resulting in bioaccumulation or toxic impacts.	<i>None proposed.</i>	N/A	N/A	N/A
SECTION 3.5 COMMERCIAL AND RECREATIONAL FISHING						
CRF-2	II	See CRF-2	<i>See MM CRF-2a and -2b</i>	See MM CRF-2a and -2b	See MM CRF-2a and -2b	See MM CRF-2a and -2b
CRF-3	I	See CRF-3	<i>See MMs WQ-2a through -2e, WQ-3a, and MB-2a</i>	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a
CRF-4	II	See CRF-4	<i>See MM MB-6a</i>	See MM MB-6a	See MM MB-6a	See MM MB-6a
CRF-5	II	See CRF-5	<i>See MMs MB-4a and -4b</i>	See MMs MB-4a, and -4b	See MM MB-4a, and -4b	See MM MB-4a, and -4b



**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
<b>SECTION 3.9 SAFETY/HAZARDS/RISK OF UPSET</b>						
HAZ-1	II	See HAZ-1	See MM HAZ-1a	See MM HAZ-1a	See MM HAZ-1a	See MM HAZ-1a
HAZ-2	II	See HAZ-2	See MM HAZ-2a	See MM HAZ-2a	See MM HAZ-2a	See MM HAZ-2a
HAZ-3	II	See HAZ-3	The following mitigation measures would apply: MM HAZ-3a MM HAZ-3a1 MM HAZ-3a2 MM HAZ-3a3	See MMs HAZ-3a through -3a3	See MMs HAZ-3a through -3a3	See MMs HAZ-3a through -3a3
HAZ-4	II	See HAZ-4	See MM HAZ-4a	See MM HAZ-4a	See MM HAZ-4a	See MM HAZ-4a
HAZ-5	III	See HAZ-5	See MM HAZ-5a	See MM HAZ-5a	See MM HAZ-5a	See MM HAZ-5a
<b>Program Alternative 3: Capping</b>						
<b>SECTION 3.1 AIR QUALITY</b>						
AQ-3	II	Emissions from material transport and placement activities would exceed the SBCAPCD daily NO <sub>x</sub> threshold of 240 pounds.	The following mitigation measures would apply: MM AQ-1a MM AQ-1b MM AQ-1c	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
AQ-3 (cont.)	II	Emissions from material transport activities would exceed the SCAQMD daily ROC, NO <sub>x</sub> , and SO <sub>2</sub> thresholds. These activities also would exceed the SCAQMD calendar quarter ROC, CO, NO <sub>x</sub> , and SO <sub>2</sub> thresholds.	The following mitigation measures would apply: <i>MM AQ-1a</i> <i>MM AQ-1b</i> <i>MM AQ-1d</i>	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d
<b>SECTION 3.2 MARINE WATER QUALITY AND SEDIMENT QUALITY</b>						
WQ-7	II	Rapid or uncontrolled placement of capping material could disturb the mound, releasing contaminated shell mound sediments with potential for toxic effects on marine biota.	<i>MM WQ-7a. Use a down pipe to deposit cap material carefully and at low velocities over the shell mounds.</i>	On-site monitoring, daily reports	CSLC	During dredging operations
WQ-8	II	The weight of the cap may compact the mounds, causing releases of sediment pore waters and associated chemical contaminants to overlying waters.	<i>MM WQ-8a. Design and specify a cap thickness that is sufficient to absorb the volume of pore water potentially released from the mounds.</i>	Approval of final cap design	CSLC CCC	Prior to capping (60 days prior to commencement)

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
WQ-9	II	Continuing risk of contaminant releases to the environment, with potential toxicity and bioaccumulation effects to aquatic organisms.	<i>MM WQ-9a. Conduct annual surveys to document that the cap thickness remains 3.3 ft (1 m) or greater, and replenish areas of the cap as needed.</i>	Review/approve annual reports	CSLC CCC	Cap Thickness Maintenance: during capping operations  Surveys: annually  Replenishment: as needed within six months of annual surveys
<b>SECTION 3.3 MARINE BENTHIC HABITATS, INVERTEBRATES, AND FISHES</b>						
MB-2	II	See MB-2	<i>See MMs MB-2a and MB-4a</i>	See MMs MB-2a and MB-4a	See MMs MB-2a and MB-4a	See MMs MB-2a and MB-4a
MB-4	II	See MB-4	<i>See MMs MB-2a and MB-4a</i>	See MMs MB-2a and MB-4a	See MMs MB-2a and MB-4a	See MMs MB-2a and MB-4a
MB-7	II	Deposition of the capping material or damage to the cap may resuspend sediments and have toxic effects on marine biota.	The following mitigation measures would apply: <i>MM WQ-7a</i> <i>MM WQ-8a</i> <i>MM WQ-9a</i>	See MMs WQ-7a, WQ-8a, and WQ-9a	See MMs WQ-7a, WQ-8a, and WQ-9a	See MMs WQ-7a, WQ-8a, and WQ-9a

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
<b>SECTION 3.4 MARINE WILDLIFE (MARINE MAMMALS, SEA TURTLES, SEABIRDS)</b>						
MW-9	II	If cap damaged, release of bioaccumulative or toxic substances possible.	The following mitigation measures would apply: <i>MM MW-2a2</i> <i>MM MW-2a12 and -2a13</i> <i>MM MW-4a1 through -4a3</i> <i>MM WQ-7a</i> <i>MM WQ-8a</i> <i>MM WQ-9a</i>	See MMs MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3, WQ-7a, WQ-8a, and WQ-9a	See MMs MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3, WQ-7a, WQ-8a, and WQ-9a	See MMs MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3, WQ-7a, WQ-8a, and WQ-9a
<b>SECTION 3.5 COMMERCIAL AND RECREATIONAL FISHING</b>						
CRF-2	II	See CRF-2	See <i>MM CRF-2a and -2b</i>	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b
CRF-3	II	See CRF-3	See <i>MMs WQ-2a through -2e, WQ-3a, and MB-2a</i>	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a
CRF-5	II	See CRF-5	See <i>MM MB-4a and -4b</i>	See MM MB-4a and -4b	See MMs MB-4a and -4b	See MMs MB-4a and -4b
CRF-8	II	Deposition of new material may resuspend sediments or damage the shell mounds, thus exposing commercially or recreationally fished species to contaminants.	See <i>MMs WQ-7a, WQ-8a, and WQ-9a</i>	See MMs WQ-7a, WQ-8a, and WQ-9a	See MMs WQ-7a, WQ-8a, and WQ-9a	See MMs WQ-7a, WQ-8a, and WQ-9a

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
CRF-9	II	The shell mounds and/or new materials may preclude certain types of fishing within the surrounding area.	<i>MM CRF-9a. To minimize the area that trawlers avoid around the shell mound sites, the Applicant shall institute the previous commitment to provide Global Positioning System (GPS) navigation/net locator equipment to trawlers that utilize the area.</i>	Verify affected fishers have received equipment See also MM WQ-9a	CSLC See also MM WQ-9a	Prior to approval for proposed action
CRF-10	II	Due to the continuing presence of the shell mounds, there is a continuing risk of exposure to contaminants from future disturbance or erosion of the mounds.	See MM WQ-9a	See MM WQ-9a	See MM WQ-9a	See MM WQ-9a
<b>SECTION 3.9 SAFETY/HAZARDS/RISK OF UPSET</b>						
HAZ-1 & HAZ-2	II	See HAZ-1 and HAZ-2	The following mitigation measures would apply: <i>MM HAZ-1a</i> <i>MM HAZ-2a</i>	See MMs HAZ-1a and -2a	See MMs HAZ-1a and -2a	See MMs HAZ-1a and -2a
<b>Program Alternative 4: Artificial Reefs at all Four Shell Mounds</b>						
<b>SECTION 3.1 AIR QUALITY</b>						
AQ-4	II	Emissions from rock transport and placement activities would exceed the SBCAPCD daily NO <sub>x</sub> threshold of 240 pounds.	The following mitigation measures would apply: <i>MM AQ-1a</i> <i>MM AQ-1b</i> <i>MM AQ-1c</i>	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
AQ-4 (cont.)	II	Emissions from rock transport activities would exceed the SCAQMD daily NO <sub>x</sub> threshold of 100 pounds.	The following mitigation measures would apply: <i>MM AQ-1a</i> <i>MM AQ-1b</i> <i>MM AQ-1d</i>	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d
<b>SECTION 3.2 MARINE WATER QUALITY AND SEDIMENT QUALITY</b>						
WQ-10	II	Rapid or uncontrolled release of reef rocks could disturb the mound, releasing contaminated shell mound sediments with potential for toxic effects on marine biota.	<i>MM WQ-10a. Prepare a detailed plan for constructing the reef that addresses construction equipment and appropriate procedures for ensuring accurate placement of reef rocks and minimizing potentials for inadvertent releases of construction materials on top of the mounds.</i>	Approval of reef construction plan	CSLC CCC CDFG USACE	Prior to construction
			<i>MM WQ-10b. Conduct post-construction surveys to document that the mounds have not been disturbed.</i>	Review ROV and high-resolution bathymetric survey data	CSLC CCC CDFG USACE	Conduct within 60 days following reef construction. Submit report to CSLS and CCC within 120 days.
WQ-11	II	Continuing risk of contaminant releases to the environment, with potential toxicity and bioaccumulation effects to aquatic organisms.	<i>MM WQ-11a. Conduct annual surveys to document that the volumes of the mounds have not changed. If the mound volumes have changed, remove or remediate the mounds.</i>	Review survey data	CLSC CCC Central Coast RWQCB	Every 6 months for 10 years

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
SECTION 3.3 MARINE BENTHIC HABITATS, INVERTEBRATES, AND FISHES						
MB-2	III	See MB-2	See MMs MB-2a, WQ-2a and -2d	See MMs MB-2a, WQ-2a and -2d	See MMs MB-2a, WQ-2a and -2d	See MMs MB-2a, WQ-2a and -2d
MB-3	II	See MB-3	See MMs WQ-2a through -2e, WQ-3a, and MB-4a	See MMs WQ-2a through -2e, WQ-3a, and MB-4a	See MMs WQ-2a through -2e, WQ-3a, and MB-4a	See MMs WQ-2a through -2e, WQ-3a, and MB-4a
MB-4	II	See MB-4	See MMs MB-4a and -4b	See MMs MB-4a and -4b	See MMs MB-4a and -4b	See MMs MB-4a and -4b
MB-8	II	Deposition of quarry rock or other reef materials on top of the shell mounds may damage the mounds resulting in resuspension of sediments and toxic effects on marine biota.	The following mitigation measures would apply: <i>MM WQ-10a</i> <i>MM WQ-10b</i> <i>MM WQ-11a</i>	See MMs WQ-10a and -10b, and WQ-11a	See MMs WQ-10a and -10b, and WQ-11a	See MMs WQ-10a and -10b, and WQ-11a

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
MB-9	II	There would be permanent replacement of natural seafloor habitat with the shell mounds, resulting in a continuing risk of contaminant releases that would have potential toxicity and bioaccumulation effects on biota residing onsite.	<i>MM MB-9a. To offset the permanent replacement of 4 acres of native seafloor habitat by the shell mounds (not including the artificial reefs), the Applicant shall create or restore an equal area of fisheries habitat by funding existing estuarine habitat restoration at Carpinteria Marsh.</i>	Verify funding for and successful implementation of restoration measures	CSLC	Prior to final lease amendment
<b>SECTION 3.4 MARINE WILDLIFE (MARINE MAMMALS, SEA TURTLES, SEABIRDS)</b>						
MW-10	II	Quarry rock would not completely prevent release of bioaccumulative or toxic substances.	The following mitigation measures would apply: <i>MM MW-2a2</i> <i>MM MW-2a12 and -2a13</i> <i>MM MW-4a1 through -4a3</i> <i>MM WQ-3a</i> <i>MM WQ-11a</i>	See MMs MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3, WQ-3a, and WQ-11a	See MMs MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3, WQ-3a, and WQ-11a	See MMs MW-2a2, MW-2a12 and -2a13, MW-4a1 through -4a3, WQ-3a, and WQ-11a
<b>SECTION 3.5 COMMERCIAL AND RECREATIONAL FISHING</b>						
CRF-2	II	See CRF-2	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b
CRF-3	II	See CRF-3	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a



**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
CRF-5	II	See CRF-5	See MMs MB-4a and -4b	See MMs MB-4a, and -4b	See MMs MB-4a, and -4b	See MMs MB-4a, and -4b
CRF-8	II	See CRF-8	See MMs WQ-7a, WQ-8a, and WQ-9a	See MMs WQ-7a, WQ-8a, and WQ-9a	See MMs WQ-7a, WQ-8a, and WQ-9a	See MMs WQ-7a, WQ-8a, and WQ-9a
CRF-9	II	See CRF-9	See MM CRF-9a	See MM CRF-9a	See MMs CRF-9a	See MMs CRF-9a
CRF-10	II	See CRF-10	See MM WQ-9a	See MM WQ-9a	See MM WQ-9a	See MM WQ-9a
CRF-11	IV	Creation of artificial reefs would benefit recreational fishing opportunities.	None proposed.	N/A	N/A	N/A
SECTION 3.9 SAFETY/HAZARDS/RISK OF UPSET						
HAZ-1 & HAZ-2	II	See HAZ-1 and HAZ-2	See MMs HAZ-1a and HAZ-2a	See MMs HAZ-1a and HAZ-2a	See MMs HAZ-1a and HAZ-2a	See MMs HAZ-1a and HAZ-2a
<b>Program Alternative 5a: Artificial Reef at Hazel after Removing Shell Mounds</b>						
SECTION 3.1 AIR QUALITY						
AQ-5a	II	Emissions from shell mound re-removal/transport and rock transport/ placement activities would exceed the SBCAPCD daily NO <sub>x</sub> threshold of 240 pounds.	The following mitigation measures would apply: MM AQ-1a MM AQ-1b MM AQ-1c	See MM AQ-1a through 1c	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
AQ-5a (cont.)	II	Emissions from transport and disposal activities for each Program Alternative option would exceed the SCAQMD daily and calendar quarter NOx threshold. Also, emissions from transport and disposal activities for the Kern County and SCAB disposal options would exceed the SCAQMD daily ROC and CO thresholds.	The following mitigation measures would apply: <i>MM AQ-1a</i> <i>MM AQ-1b</i> <i>MM AQ-1d</i>	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d
<b>SECTION 3.2 MARINE WATER QUALITY AND SEDIMENT QUALITY</b>						
WQ-1	IV	See WQ-1	<i>None proposed.</i>	N/A	N/A	N/A
WQ-2	II or III	See WQ-2	<i>See MMs WQ-2a and -2e</i>	See MMs WQ-2a and -2e	See MMs WQ-2a and -2e	See MMs WQ-2a and -2e
WQ-3	II	See WQ-3	<i>See MM WQ-3a</i>	See MM WQ-3a	See MM WQ-3a	See MM WQ-3a
WQ-4	I	See WQ-4	<i>None proposed.</i>	N/A	N/A	N/A
	II	See WQ-4	The following mitigation measures would apply: <i>MM WQ-2a (approved practices including limits on loading barges)</i> <i>MM MB-4a</i> <i>MM MB-4b</i>	See MMs WQ-2a, MB-4a and -4b	See MMs WQ-2a, MB-4a and -4b	See MMs WQ-2a, MB-4a and -4b

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
<b>SECTION 3.3 MARINE BENTHIC HABITATS, INVERTEBRATES, AND FISHES</b>						
MB-1	IV	See MB-1	<i>None proposed.</i>	N/A	N/A	N/A
MB-2	III	See MB-2	The following mitigation measures would apply: <i>MM MB-2a</i> <i>MM WQ-2a and -2d</i>	See MMs MB-2a, WQ-2a and -2d	See MMs MB-2a, WQ-2a and -2d	See MMs MB-2a, WQ-2a and -2d
MB-3	II	See MB-3	The following mitigation measures would apply: <i>MM MB-2a</i> <i>MM WQ-2a through -2e</i> <i>MM WQ-3a</i> <i>MM MB-4a</i>	See MMs MB-2a, WQ-2a through -2e, WQ-3a, and MB-4a	See MMs MB-2a, WQ-2a through -2e, WQ-3a, and MB-4a	See MMs MB-2a, WQ-2a through -2e, WQ-3a, and MB-4a
MB-4	II	See MB-4	The following mitigation measures would apply: <i>MMs MB-4a and -4b</i>	See MMs MB-4a and -4b	See MMs MB-4a and -4b	See MMs MB-4a and -4b
MB-5	I	See MB-5	<i>None proposed.</i>	N/A	N/A	N/A
<b>SECTION 3.4 MARINE WILDLIFE (MARINE MAMMALS, SEA TURTLES, SEABIRDS)</b>						
MW-1	IV	See MW-1	<i>None proposed.</i>	N/A	N/A	N/A
MW-4	II	See MW-4	The following mitigation measures would apply: <i>MM MW-4a1 through -4a3</i> <i>MM MB-2a</i>	See MMs MW-4a1 through -4a3, and MB-2a	See MMs MW-4a1 through -4a3, and MB-2a	See MMs MW-4a1 through -4a3, and MB-2a
MW-5	II	See MW-5	The following mitigation measures would apply: <i>MM WQ-2a through -2e</i> <i>MM WQ-3a</i> <i>MM MB-2a</i>	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a
MW-6	II	See MW-6	<i>See MM MW-6a and WQ-2a</i>	See MMs MW-6a and WQ-2a	See MMs	See MMs

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
					MW-6a and WQ-2a	MW-6a and WQ-2a
MW-7	II (I for ocean disposal)	See MW-7	The following mitigation measures would apply: <i>MM WQ-2a through -2d</i> <i>MM WQ-3a</i> <i>MM MB-2a</i> <i>MM MB-4a and -4b</i> <i>MM MW-2a2</i> <i>MM MW-2a12 and -2a13</i> <i>MM MW-4a1 through -4a3</i>	See MMs WQ-2a through -2d, WQ-3a, MB-2a, MB-4a and -4b, MW-2a2, MW-2a12 and -2a13, and MW-4a1 through -4a3	See MMs WQ-2a through -2d, WQ-3a, MB-2a, MB-4a and -4b, MW-2a2, MW-2a12 and -2a13, and MW-4a1 through -4a3	See MMs WQ-2a through -2d, WQ-3a, MB-2a, MB-4a and -4b, MW-2a2, MW-2a12 and -2a13, and MW-4a1 through -4a3
SECTION 3.5 COMMERCIAL AND RECREATIONAL FISHING						
CRF-1	IV	See CRF-1	<i>None proposed.</i>	N/A	N/A	N/A
CRF-2	III	See CRF-2	<i>See MM CRF-2a and -2b</i>	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b
CRF-3	II	See CRF-3	<i>See MMs WQ-2a through -2e, WQ-3a, and MB-2a</i>	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a
CRF-5	II	See CRF-5	<i>See MM MB-4a, and -4b</i>	See MMs MB-4a, and -4b	See MMs MB-4a, and -4b	See MMs MB-4a, and -4b
CRF-9	II	See CRF-9	<i>See MMs CRF-9a</i>	See MMs CRF-9a	See MM CRF-9a	See MM CRF-9a
CRF-11	IV	See CRF-11	<i>None proposed.</i>	N/A	N/A	N/A
SECTION 3.9 SAFETY/HAZARDS/RISK OF UPSET						
HAZ-1 &	II	See HAZ-1 and HAZ-2	The following mitigation measures would apply:	See MMs HAZ-1a and -2a	See MMs HAZ-1a and	See MMs HAZ-1a and

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
HAZ-2		2	apply: <i>MM HAZ-1a</i> <i>MM HAZ-2a</i>		-2a	-2a
<b>Program Alternative 5b: Artificial Reef at Hazel after Spreading Shell Mounds</b>						
SECTION 3.1 AIR QUALITY						
AQ-5b	II	Emissions from shell mound spreading and rock transport/placement activities would exceed the SBCAPCD daily NO <sub>x</sub> threshold of 240 pounds.	The following mitigation measures would apply: <i>MM AQ-1a</i> <i>MM AQ-1b</i> <i>MM AQ-1c</i>	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c	See MMs AQ-1a through -1c
	II	Emissions from rock transport activities would exceed the SCAQMD daily NO <sub>x</sub> threshold of 100 pounds.	The following mitigation measures would apply: <i>MM AQ-1a</i> <i>MM AQ-1b</i> <i>MM AQ-1d</i>	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d	See MMs AQ-1a, AQ-1b, and AQ-1d
SECTION 3.2 MARINE WATER QUALITY AND SEDIMENT QUALITY						
WQ-5	II or III	See WQ-5	See <i>MM WQ-5a</i>	See <i>MM WQ-5a</i>	See <i>MM WQ-5a</i>	See <i>MM WQ-5a</i>
WQ-6	I	See WQ-6	<i>None proposed.</i>	N/A	N/A	N/A
SECTION 3.3 MARINE BENTHIC HABITATS, INVERTEBRATES, AND FISHES						
MB-2	I	See MB-2	<i>None proposed.</i>	N/A	N/A	N/A
MB-3	I	See MB-3	<i>None proposed.</i>	N/A	N/A	N/A
MB-4	II	See MB-4	See <i>MM MB-4a</i>	See <i>MM MB-4a</i>	See <i>MM MB-4a</i>	See <i>MM MB-4a</i>

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
MB-5	I	See MB-5	<i>None proposed.</i>	N/A	N/A	N/A
SECTION 3.4 MARINE WILDLIFE (MARINE MAMMALS, SEA TURTLES, SEABIRDS)						
MW-8	I	See MW-8	<i>None proposed.</i>	N/A	N/A	N/A
SECTION 3.5 COMMERCIAL AND RECREATIONAL FISHING						
CRF-1	IV	See CRF-1	<i>None proposed.</i>	N/A	N/A	N/A
CRF-2	II	See CRF-2	<i>See MMs CRF-2a and -2b</i>	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b	See MMs CRF-2a and -2b
CRF-3	II	See CRF-3	<i>See MMs WQ-2a through -2e, WQ-3a, and MB-2a</i>	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a	See MMs WQ-2a through -2e, WQ-3a, and MB-2a
CRF-5	II	See CRF-5	<i>See MMs MB-4a and -4b</i>	See MMs MB-4a and -4b	See MMs MB-4a and -4b	See MMs MB-4a and -4b
CRF-9	II	See CRF-9	<i>See MMs CRF-9a</i>	See MMs CRF-9a	See MM CRF-9a	See MM CRF-9a
CRF-11	IV	See CRF-11	<i>None proposed.</i>	N/A	N/A	N/A
SECTION 3.9 SAFETY/HAZARDS/RISK OF UPSET						
HAZ-1 & HAZ-2	II	See HAZ-1 and HAZ-2	The following mitigation measures would apply: <i>MM HAZ-1a</i> <i>MM HAZ-2a</i>	See MMs HAZ-1a and HAZ-2a	See MMs HAZ-1a and HAZ-2a	See MMs HAZ-1a and HAZ-2a

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
<b>Program Alternative 6: Offsite Mitigation</b>						
SECTION 3.1 AIR QUALITY						
AQ-6	II	Significant air quality impacts associated with offsite mitigation actions could occur from (1) combustive emissions due to the use of fossil fuel-fired equipment used in activities such as dredging, earth-moving, or clearing of vegetation or (2) fugitive dust due to the use of equipment on dry soils.	See mitigations in the Final EIR for the Carpinteria Salt Marsh Enhancement Plan (SBCFCWCD 2003, SCH 2003021016).	A summary of construction/maintenance work, including a statement on compliance with these measures, shall be documented in the annual post-maintenance report.	SBCFCD	The SBCFCD shall include these requirements on construction/maintenance plans prior to Land Use Clearance.
SECTION 3.2 MARINE WATER QUALITY AND SEDIMENT QUALITY						
WQ-12	II	Continuing risks of contaminant releases to the environment, with potential toxicity and bioaccumulation effects to aquatic organisms.	See MM WQ-11a	See MM WQ-11a	See MM WQ-11a	See MM WQ-11a
SECTION 3.3 MARINE BENTHIC HABITATS, INVERTEBRATES, AND FISHES						
MB-9	II	See MB-9	See MM MB-9a	See MM MB-9a	See MM MB-9a	See MM MB-9a

**Table 8-1. Mitigation Monitoring Program**

(continued)

<i>Impact No.</i>	<i>Impact Class*</i>	<i>Environmental Impact</i>	<i>Mitigation Measure</i>	<i>Monitoring Action</i>	<i>Monitoring Agency</i>	<i>Timing</i>
SECTION 3.4 MARINE WILDLIFE (MARINE MAMMALS, SEA TURTLES, SEABIRDS)						
MW-11	II	On going risks of release of bioaccumulative or toxic substances.	See MM WQ-11a	See MM WQ-11a	See MM WQ-11a	See MM WQ-11a
SECTION 3.5 COMMERCIAL AND RECREATIONAL FISHING						
CRF-9	II	See CRF-9	See MM CRF-9a MM CRF-9b. <i>To offset the permanent replacement of 4 acres of native seafloor habitat by the shell mounds, the Applicant shall create or restore an equal area of fisheries habitat by funding estuarine habitat restoration at Carpinteria Marsh.</i>	Verify funding for and successful implementation of restoration measures	CSLC	Prior to final lease amendment
CRF-10	II	See CRF-10	See MM WQ-9a	See MM WQ-9a	See MM WQ-9a	See MM WQ-9a
<p>* Impacts are classified as:</p> <p>Class I = Significant adverse impact that cannot be mitigated to a level of insignificant</p> <p>Class II = Significant adverse impact that can be mitigated to a level of insignificant</p> <p>Class III = Adverse, insignificant impact</p> <p>Class IV = Beneficial impact</p>						